



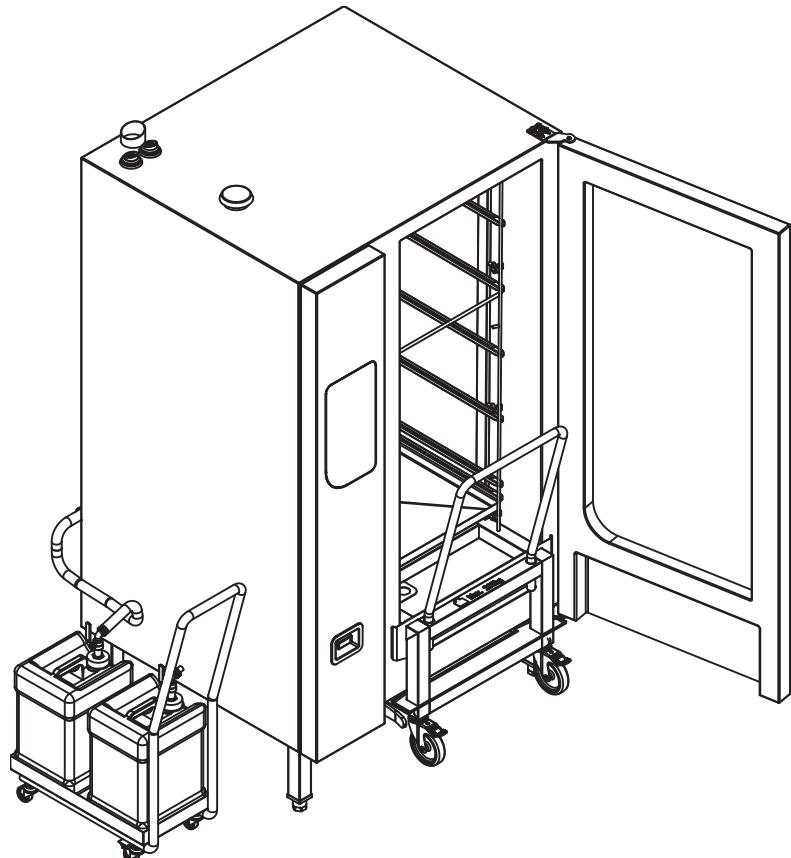
Read the Operating instructions before starting maintenance

Maintenance instructions

FlexFusion® GAS PLATINUM COMBI incl. grease collection

Model

FPG-221





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| | |
|--|-----------|
| 1 Introduction | 5 |
| 1.1 About this manual | 5 |
| 1.2 Personnel qualification | 5 |
| 2 Maintenance Intervals | 6 |
| 2.1 Required Maintenance | 6 |
| 2.2 Recommended Maintenance | 6 |
| 3 Notes On Safety | 7 |
| 4 Description Of Unit | 9 |
| 4.1 Flexi Fusion Device Overview | 9 |
| 4.1.1 Tray Trolley | 10 |
| 4.1.2 Cooking Chamber | 11 |
| 4.1.3 Air Inlet | 11 |
| 4.1.4 Gas Screens | 12 |
| 4.2 Unit and Connection Data | 12 |
| 5 Special Tools, Testing and Measuring Equipment | 17 |
| 6 Entering The Order Data and Nameplate Information ... | 18 |
| 7 Opening And Closing the Housing | 20 |
| 7.1 Removing and Attaching the Side Wall | 20 |
| 7.1.1 Removing the Side Wall | 20 |
| 7.1.2 Attaching the Side Wall | 21 |
| 7.2 Opening and Closing the Control Panel | 22 |
| 7.2.1 Opening the Control Panel | 22 |
| 7.2.2 Closing the Control Panel | 22 |
| 8 Performing Maintenance | 23 |
| 8.1 Complaints From the Operator | 24 |
| 8.2 Check All Existing Tray Trolleys | 24 |
| 8.2.1 Align Combi Steamer | 25 |
| 8.3 Check Cooking Chamber Door and Gasket | 25 |
| 8.3.1 Check Preheat Bridge | 26 |
| 8.3.2 Door Latch | 26 |
| 8.4 Checking the Overall State of the Unit | 27 |
| 8.4.1 Operating Panel | 27 |
| 8.4.2 Supply Air Electronics | 27 |
| 8.5 Check Housing | 27 |
| 8.6 Check Cooking Chamber | 28 |
| 8.6.1 Supply Air Supply Cooking Chamber | 28 |
| 8.6.2 Cooking chamber | 28 |
| 8.6.3 Lighting | 29 |
| 8.6.4 Internal Core Temperature Sensor | 29 |

Directory of contents

| | |
|---|-----------|
| 8.6.5 Cooking Chamber Sensor and Protective Guard | 29 |
| 8.6.6 Heat Exchanger, Fan Wheel and Water Inlet | 30 |
| 8.7 Check Water Connection | 30 |
| 8.8 Check Gas Connection | 31 |
| 8.9 Check Flexible Hose Lines | 31 |
| 8.10 Check Wastewater Connection | 31 |
| 8.11 Checking The Condition of The Electrical Components | 32 |
| 8.12 Check Components | 33 |
| 8.13 Check Gas Components | 34 |
| 8.14 Check Software | 36 |
| 8.15 Checking The Power Supply | 36 |
| 8.16 Checking The Controller | 37 |
| 8.16.1 Check Date and Time | 37 |
| 8.16.2 Are There Any Current Error Messages? | 37 |
| 8.17 Clean and Check Grease Collection on Combi Steamer | 38 |
| 8.17.1 Clean Grease Collection System | 38 |
| 8.17.2 Function Test Grease Pump | 38 |
| 8.17.3 Function Test Automatic Flushing | 39 |
| 8.18 Restoring The Unit To Operability | 39 |
| 9 Maintenance Notes | 41 |

1 Introduction

1.1 About this manual

The maintenance instructions contain information:

- About the safe maintenance of the unit.

Observe the following notes and adhere to them:

- Read the maintenance instructions completely before starting maintenance.
- Read the Operating instructions before operating the unit.

Target group The target group for the maintenance instructions is trained specialist personnel who are entrusted with the service, maintenance and operation of the unit.

Figures All figures in this manual are intended as examples. Discrepancies can arise between this and the actual unit.

Part replacement The customer is informed about the need to replace parts and his consent is obtained. Only original spare parts are used.

1.2 Personnel qualification

Explanation of qualification

| | |
|-------------------|--|
| Skilled personnel | <ul style="list-style-type: none"> • A skilled person is someone who, on the basis of their technical training, knowledge and experience as well as familiarity with the applicable standards, can assess the assigned work and recognize possible dangers. |
| Expert | <ul style="list-style-type: none"> • An expert is a person, who has sufficient professional knowledge on the basis of his training and experience, and who is sufficiently familiar with the relevant regulations, guidelines and rules covering the particular technology, that he can assess the safe operating condition of the system. • The person must be named in writing by the specialist company concerned, and the remit of his authorized tasks must also be stated. |

| Type of activity | Qualification |
|-----------------------|--|
| Electrical connection | <ul style="list-style-type: none"> • Electrician • Specialized training • Employee of the responsible technical company |
| Gas connection | <ul style="list-style-type: none"> • Gas expert • Specialized training • Employee, who is named in writing, of the specialist company concerned |

2 Maintenance Intervals

2.1 Required Maintenance

The manufacturer does not prescribe any mandatory maintenance of the unit.

2.2 Recommended Maintenance

The manufacturer recommends maintenance of the unit in accordance with the following table.

| After 12 months, after 6 months under heavy workload (more than 12 hours per day) |
|---|
| <ul style="list-style-type: none">• Overall state of the unit• Operating unit• Power supply• Electrical components• Water connection• Waste water connection |

3 Notes On Safety

The maintenance personnel must be familiar with regional regulations and observe them.

The maintenance personnel must observe the safety information in these maintenance instructions.

The maintenance personnel must also observe the "Safety information" chapter in the installation instructions and operating instructions of the unit.

Organizational measures Risk of property damage and personal injury from lack of organizational measures

- Inform the operators present prior to starting the maintenance work.
- Discuss how to respond to an emergency prior to starting the maintenance work.
- Use equipment and protective gear suitable for the activity.

Electrical connection Danger of electric shock from live components.

- Prior to working on the electrical system, switch off the unit, disconnect the electrical system from the mains and prevent power from being switched on again. Check to ensure the system is dead.
- Use only insulated tools.
- Do not put a unit with damaged operating elements into service.

Gas connection Risk of explosion and fire from improper connection

- Observe applicable regional regulations of the gas utility.
- Ensure that only a tradesman licensed by the gas supplier connects the unit to the gas supply.
- Prior to working on the gas system, switch off the unit, close the gas supply from the gas system and secure it against being reopened. When bleeding air or degassing, ensure that the air and gas are discharged to the outside in a technically correct manner and without creating a risk.
- Observe the information on the nameplate and *Gas type* additional shield.
- Check for leaks.
- When working on the gas system and units in buildings, ensure that a hazardous gas-air mixture cannot form in the rooms.

Risk of poisoning from exhaust gases

- Ensure that exhaust gases are discharged properly and that the necessary amount of combustion air is supplied.
- Ensure that a maximum CO content of < 0.1 vol. % or < 1000 ppm is achieved in undiluted exhaust gas.

Risk of fire from combustion gases and hot surfaces

- Install the unit such that there is no contact with combustible surfaces.
- Maintain an adequate distance from grease filters on ventilation systems.

Improper maintenance **Risk of physical damage and personal injury from improper maintenance**

- Service the unit only as specified in these maintenance instructions.
- Use only original spare parts.

Concluding activities **Risk of damage to property and personal injury from improper connections**

- Reactivate all safety devices and check that they function properly.

4 Description Of Unit

4.1 Flexi Fusion Device Overview

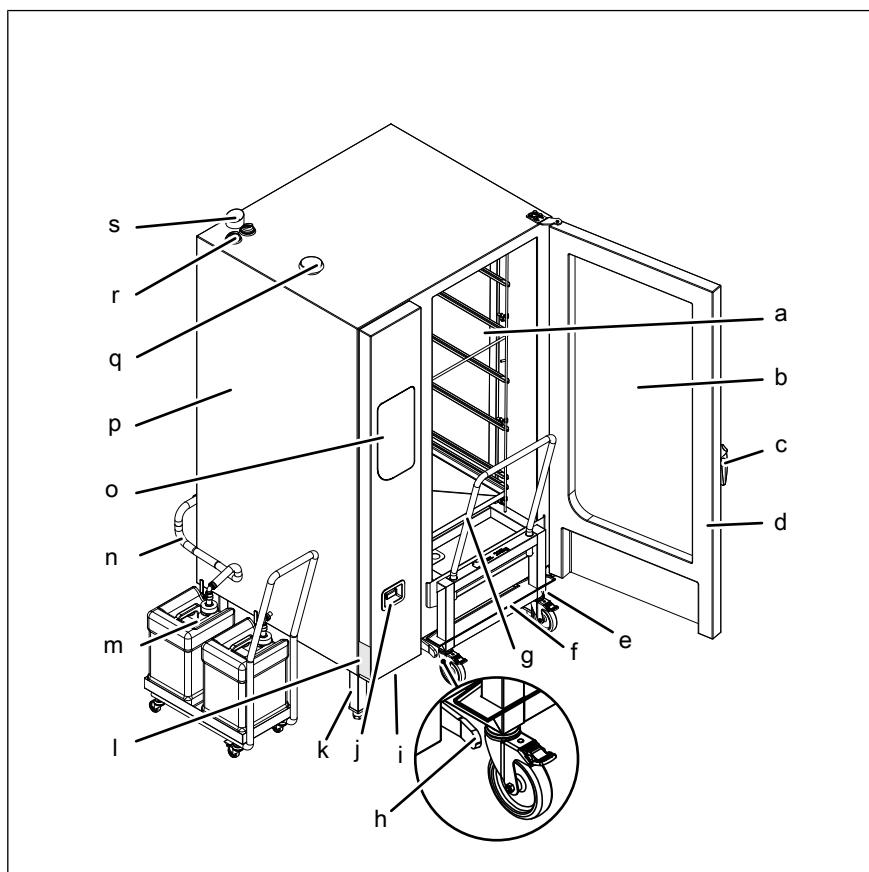


Image: Device with tray trolley and Grease Collection

- | | |
|------------------------|------------------------|
| a Tray rack | k Unit leg |
| b Insulating disk | l Nameplate |
| c Door handle | m Grease container |
| d Cooking chamber door | n Grease drain hose |
| e Guide rail (right) | o Operating unit |
| f Tray trolley | p Housing |
| g Handle bar | q Air inlet nozzle |
| h Guide rail (left) | r Waste gas connection |
| i USB port (covered) | s Steam outlet nozzle |
| j hand shower | |

Description Of Unit

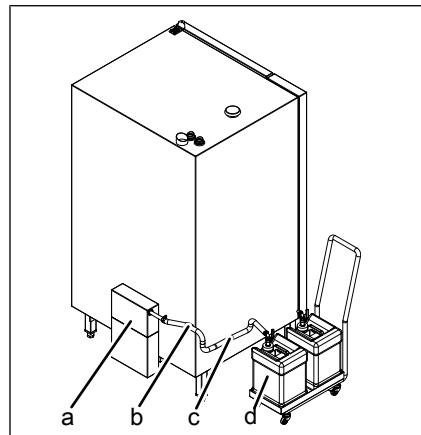


Image: Rear of device

- a Grease pump cover
b Guide sleeve

- c Grease drain hose
d Grease container

4.1.1 Tray Trolley

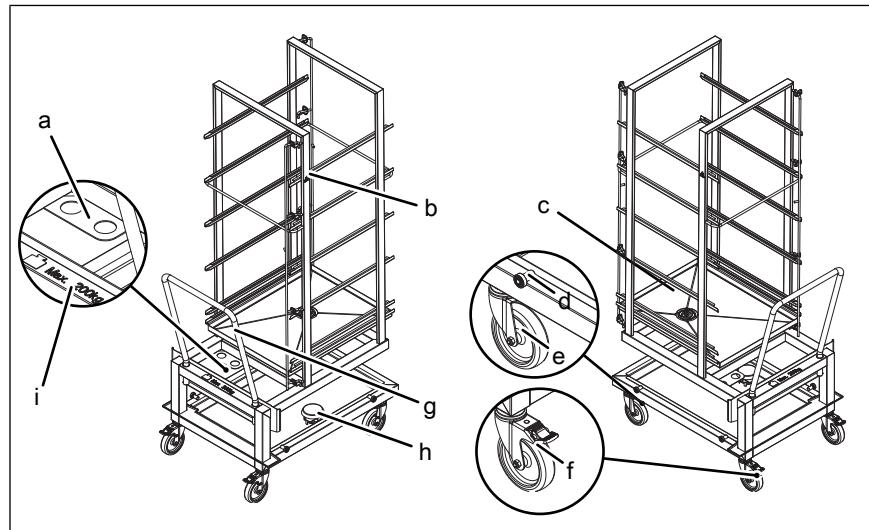


Image: Tray trolley with retraction system *EasyIn*

- a Holder cleaning cartridge
b Slide-in frame (tray rack)
c Grease drip tray
d Sliding caster (ball bearing) right/
left
e Caster
f Caster with brake
g Handle bar
h Pan with quick release
i Warning

4.1.2 Cooking Chamber

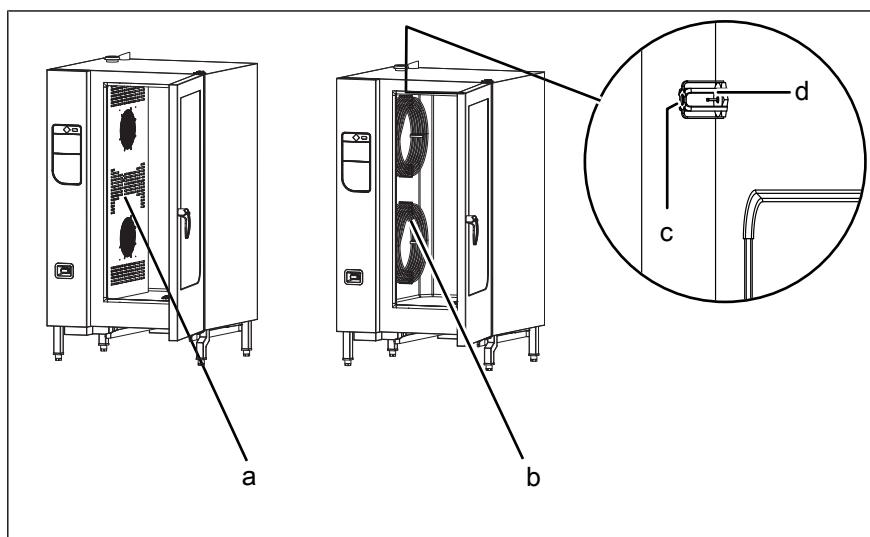


Image: Cooking chamber

- a Air diverter
- b Heat exchanger
- c Cooking chamber sensors
- d Protective guard

The two cooking chamber sensors are located on the rear right inner side in the cooking chamber.

4.1.3 Air Inlet

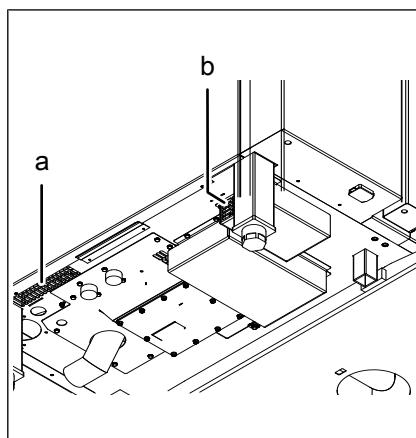


Image: Supply air openings

- a Ventilation grille
- b Ventilation shaft

Description Of Unit

4.1.4 Gas Screens

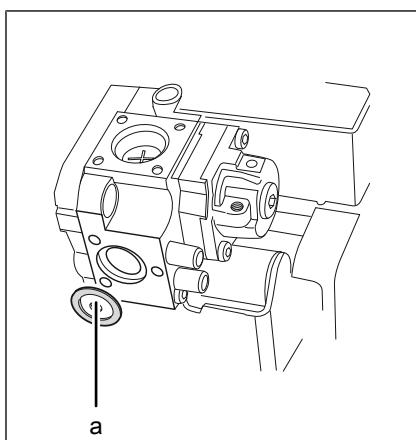


Image: Gas fitting with gas orifice

a Gas orifice with gasket

4.2 Unit and Connection Data

| Unit size | 215 | 221 |
|---|---------------------------------------|----------------|
| Emissions | | |
| Noise level (db(A)) | < 70 | |
| Steam output (g/h (oz/h)) | 8400 (296,3) | 16140 (569,31) |
| Steam output (m ³ /h (cuft/h)) | 14,2 (501,1) | 27,4 (966,9) |
| Latent heat loss (W) | 5706 | 10962 |
| Sensible heat loss (W) | 4755 | 9135 |
| Operating environment | | |
| Temperature (°C (°F)) | 5 (41) — 40 (104) | |
| Relative humidity (%) non-condensing | 95 | |
| Cooking chamber light | | |
| Illuminant | Halogen oven lamp 20 W 12 V G4 | |
| Energy efficiency class | C | |
| Electrical connection | | |
| Protective system | IPX5 | |
| Type of connection | 1NPE / AC 50/60 Hz | |
| Voltage (V) | 120 | |
| Connected load (kW) | 1.0 | |
| Recommended fuse (A) | 16 | |
| Type of connection | 1NPE / AC 50/60 Hz, 2PE / AC 50/60 Hz | |

| Unit size | 215 | 221 |
|--|--|------------|
| Softened drinking water connection | | |
| Water type | Softened drinking water, cold | |
| Residual hardness CaCO ₃ (mmol/l (ppm)) | < 1 (100 ppm) | |
| Chloride Cl (mg/l) | < 100 | |
| Iron Fe (mg/l) | < 0.2 | |
| Connection pressure (kPa (psi)) | 200 (29) — 600 (87) | |
| Diameter (") | R 3/4 | |
| Drinking water connection | | |
| Water type | Drinking water, cold | |
| Carbonate hardness CaCO ₃ (mmol/l (ppm)) | < 4 (400 ppm) | |
| Connection pressure (kPa (psi)) | 200 (29) — 600 (87) | |
| Diameter (") | R 3/4 | |
| Water consumption, steaming | | |
| Softened drinking water (l/h (gal/h)) | 36 (9,51) | 48 (12,68) |
| Water consumption, Combi steaming | | |
| Softened drinking water (l/h (gal/h)) | 8 (2,11) | 10,6 (2,8) |
| Water consumption, WaveClean cleaning program | | |
| Softened drinking water (l (gal)) | 3 l (0,79) | |
| Drinking water (l (gal)) | 32 l (8,45) | |
| Waste water connection | | |
| Waste water type | Dirty water, maximum 80 °C (176 °F) | |
| Diameter (mm (in)) | 50 (1,97) | |
| Maximum length (m (ft)) | 1 (3,3) with downward slope of at least 5% or 3° | |
| Temperature resistance (°C (°F)) | 95 (203) | |
| Maximum flow rate (l/min (gal/min)) | 10 (2,64) | |
| Exhaust air connection | | |
| Diameter (mm (in)) | 73 (2,87) | 73 (2,87) |
| Maximum length (m (ft)) | 2,5 (8,2) | |
| Temperature resistance (°C (°F)) | 180 (356) | |

Description Of Unit

| Unit size | 215 | 221 | | |
|---|---|-------------|--|--|
| Gas connection | | | | |
| Rated heat input (kW) | 36 | 52 | | |
| Gas type | The gas type, for which the unit is set, is indicated on the gas type supplemental label. | | | |
| Diameter according to EN10226-1 (") | R 3/4 | | | |
| Diameter (US version only) (") | 3/4 NPT | | | |
| Connection pressure (hPa (lbf/sqft)) Natural gas 2H, 2E, 2L, 2LL * | 20 (41,8) | | | |
| Connection pressure (hPa (lbf/sqft)) Liquid gas 3B/P, 3P * | 50 (104,4) | | | |
| Natural gas E/H, G20 (m³/h (cuft/h)) ** | 3,74 (132) | 5,4 (190,6) | | |
| Liquefied gas P G31 (kg/h (lb/h)) | 2,8 (6,17) | 4,04 (8,91) | | |
| Combustion air (m³/h (cuft/h)) ** | 45 (1587,9) | 65 (2293,7) | | |
| Supply air and exhaust gas routing | | | | |
| required conveying pressure B _{13BS} (Pa) | 0 — 5 | | | |
| Exhaust gas temperature B _{13BS} (°C (°F)) | 205 (401) | | | |
| Exhaust gas mass flow B _{13BS} (kg/h (lb/h)) | 99 (218,3) | | | |
| Diameter (mm (in)) | 155 (6,1) x 1 (0,04) | | | |
| * Information is country-specific and applies in Germany; for further information, see "Checking the connection pressure" | | | | |
| ** Data valid at 15 °C (59 °F) and 1013,25 hPa (2115,34 lbf/sqft) | | | | |

Transformer voltage

| | | | | |
|------------------------------|----------------------------|-----|---------|-----|
| Type of connection | 1NPE / AC 50/60 Hz | | | |
| Voltage range (V) | 100 — 120 | | | |
| Transformer | T1 | | T2 / T3 | |
| Wire identification or color | blue | red | blue | red |
| Voltage measured (V) | Voltage at transformer (V) | | | |
| 90 — 100 | 0 | 110 | -20 | 120 |
| 101 — 110 | 0 | 110 | 0 | 120 |
| 111 — 120 | 0 | 120 | 0 | 120 |

Gas connection pressure

| Gas type | Dynamic pressure (inch WC (mbar)) | Dynamic pressure range (inch WC (mbar)) |
|------------------|-----------------------------------|---|
| Natural gas A | 8 (20) | 6.8 - 10 (17 - 25) |
| LP Gas B/P gas E | 12 (30) | 17 - 23 (42.5 - 57.5) |

Gas blower speed

| Unit size | Gas blower speed (rpm) | |
|-----------|------------------------|------------------|
| | High output (High) | Low output (Low) |
| 221 | 6700 | 2800 |

Exhaust gas values

| Gas type | CO ₂ at high power (high) | CO ₂ at low power (low) | CO (ppm) range | CO (ppm) optimal |
|------------------------------|--------------------------------------|---------------------------------------|----------------|------------------|
| Natural gas | 8.6 — 9.6 % | 0.5 - 1.2% lower than at high setting | 0 — 1000 | < 100 |
| Liquefied petroleum gas (LP) | 10.0 — 11.0 % | | | |

Gas orifice size, natural gas

| | E/H | LL/L | L | K | 13A | Gas A | NGN, NG174 |
|--|--|--------------|--------------|--------------|-------------|-------------|-------------|
| Test gas | G20 | G25 | G25 | G25.3 | G21 | G20 | G20, |
| Wobbe index (kWh/m ³)* | 15.0 | 12.4 | 12.4 | 12.5 | 16.1 | 15.0 | 15.0 |
| Range Wobbe index (kWh/m ³)* | 12.0 — 16 .1 | 10.1 — 13 .1 | 11.5 — 13 .1 | 12.7 — 13 .3 | 14.5 — 16.3 | 12.0 — 16.1 | 12.0 — 16.1 |
| Connection pressure (hPa (lbf/sqft)) | 20 (41,8) | 20 (41,8) | 25 (52,2) | 25 (52,2) | 20 (41,8) | 20 (41,8) | 20 (41,8) |
| Primary air gap (mm (in)) | 30 (1,18) — 50 (1,97) | | | | | | |
| CO content (ppm) *** | < 1000 (optimum < 100) | | | | | | |
| Unit size | Aperture size (1/100 (mm (in))) | | | | | | |
| 215 | 565 (22,24) | 650 (25,59) | 650 (25,59) | 650 (25,59) | N/A** | 590 (23,23) | 565 (22,24) |
| 221 | 565 (22,24) | 640 (25,2) | 640 (25,2) | 640 (25,2) | N/A** | 580 (22,83) | 565 (22,24) |

* upper Wobbe index, data apply at 0 °C (32 °F) and 1013,25 hPa (2115,34 lbf/sqft)

** For information on manually setting the rated heat input, (see "Adjusting the basic gas setting").

*** in undiluted exhaust gas

Description Of Unit

Gas orifice size, liquefied gas

| | B/P | B/P | P | LP gas B/P | LP gas B/P gas E | LP gas B/P FL50, BP29, PX275 |
|---|--|-------------|-------------|-------------|---------------------|------------------------------------|
| Test gas | G30/G31 | G30/G31 | G31 | G30/G31 | G30/G31 | G30/G31, |
| Wobbe index (kWh/ m ³)* | 25.7 / 22.5 | 25.7 / 22.5 | 22.5 | 23.5 | 25.7 / 22.5 | 25.7 / 22.5 |
| Range Wobbe index (kWh/m ³)* | 21.4 — 25.7 | 21.4 — 25.7 | 21.4 — 22.5 | 21.4 — 25.7 | 21.4 — 25.7 | 21.4 — 25.7 |
| Connection pressure (hPa (lbf/sqft)) | 50 (104,4) | 30 (62,6) | 37 (77,2) | 28 (58,5) | 30 (62,6) | 50 (104,4) |
| Primary air gap (mm (in)) | 30 (1,18) — 50 (1,97) | | | | | |
| CO content (ppm)** | < 1000 (optimum < 100) | | | | | |
| Unit size | Aperture size (1/100 (mm (in))) | | | | | |
| 215 | 420 (16,54) | 420 (16,54) | 420 (16,54) | 420 (16,54) | 420 (16,54) | 420 (16,54) |
| 221 | 400 (15,75) | 400 (15,75) | 400 (15,75) | 400 (15,75) | 400 (15,75) | 400 (15,75) |

* upper Wobbe index, data apply at 0 °C (32 °F) and 1013,25 hPa (2115,34 lbf/sqft)

** in undiluted exhaust gas

5 Special Tools, Testing and Measuring Equipment

The following tools and measuring instruments are needed for maintenance:

- Pressure gauge, measuring accuracy at least 0.1 mbar
- Exhaust gas measuring device (for CO² measurements)
- Voltmeter
- Amp meter
- Hex key, size 5 mm
- Bubble level
- Personal protective equipment
- Measuring cup with scale, capacity approx. 1 litre
- Floor jack (for aligning the device)
- USB stick with current software

6 Entering The Order Data and Nameplate Information

| I. Henny Penny Service Provider Information | | | |
|---|--|----------------|--|
| Company: | | Company Phone: | |
| Address: | | City: | |
| State/Province: | | Postal Code: | |
| Email Address: | | | |

| II. Store Information | | | |
|-----------------------|--|--------------|--|
| Store ID Number: | | Store Phone: | |
| Address: | | City: | |
| State/Province: | | Postal Code: | |
| Email Address: | | | |

The nameplate contains important data and information regarding the unit.

It is attached to the outside of the unit's housing. A second nameplate is located inside the unit behind the operating panel.

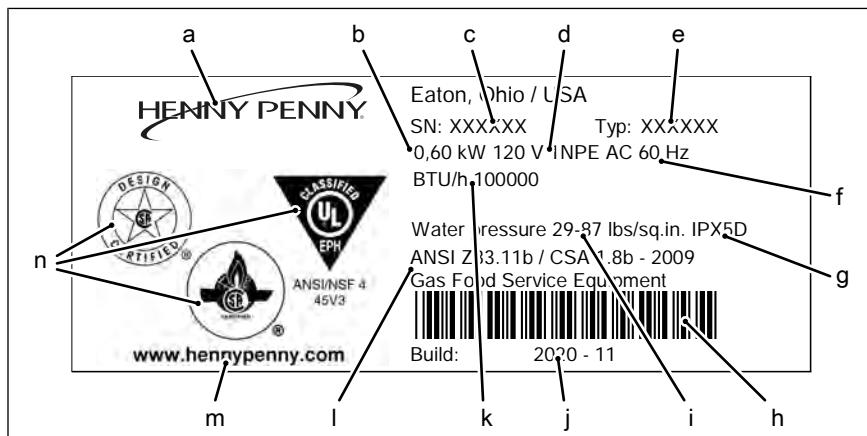


Image: Data plate

- | | |
|-----------------------------|---------------------------------|
| a Manufacturer | h Barcode |
| b Electrical connected load | i Connection pressure for water |
| c Serial number | j Year of manufacture |
| d Type of connection | k Gas connection value |
| e Type number | l Test criteria |
| f Frequency | m Manufacturer's web address |
| g Protective system | n Certificate |

Entering The Order Data and Nameplate Information

| Checking The Data Plate | | | | |
|---|--|------------------|--------------------------|--------------------------|
| Test Criteria | | Remarks / values | Yes | No |
| • Does the unit have a data plate attached, and is it legible?? | | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No | | | | |
| Check if the data plate is present inside the device. If either the data plate is not legible or not present, then: 1. Open the Service menu. 2. Display unit information. 3. Serial number and type designation are available. | | | | |

| General information | | Yes | No |
|--------------------------------------|-------------------------------|-----|----|
| Enter serial number (c) SN: _____ | Enter type (e) Type: _____ | | |

7 Opening And Closing the Housing

DANGER

Risk of Personal Injury and Property Damage from Electric Shock

- Before working on the unit's housing, ensure that the unit is not connected to an electrical outlet.
- Do not operate the unit with the housing open.

CAUTION

Risk of Injury from Sharp Edges

- Wear protective gloves.

NOTICE

Risk of Property Damage from Damage to The Lines

- Remove and attach housing components carefully.

7.1 Removing and Attaching the Side Wall

7.1.1 Removing the Side Wall

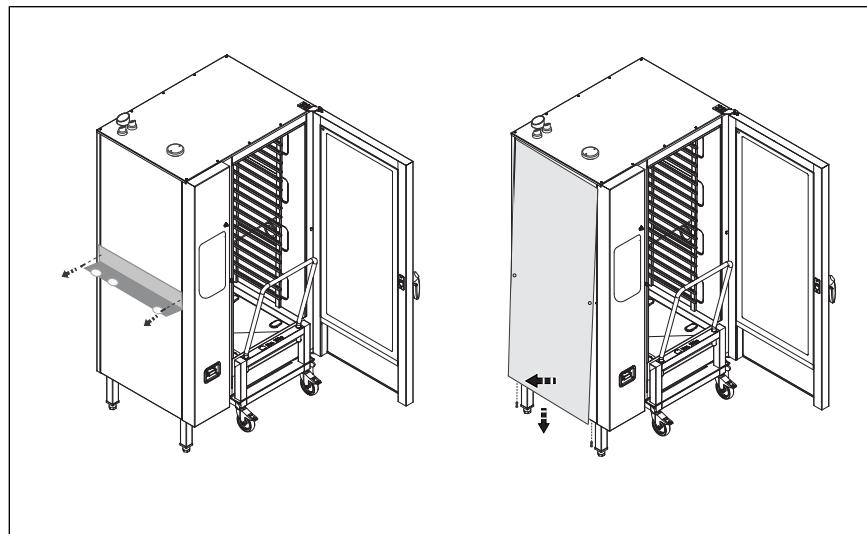


Image: Removing the side wall

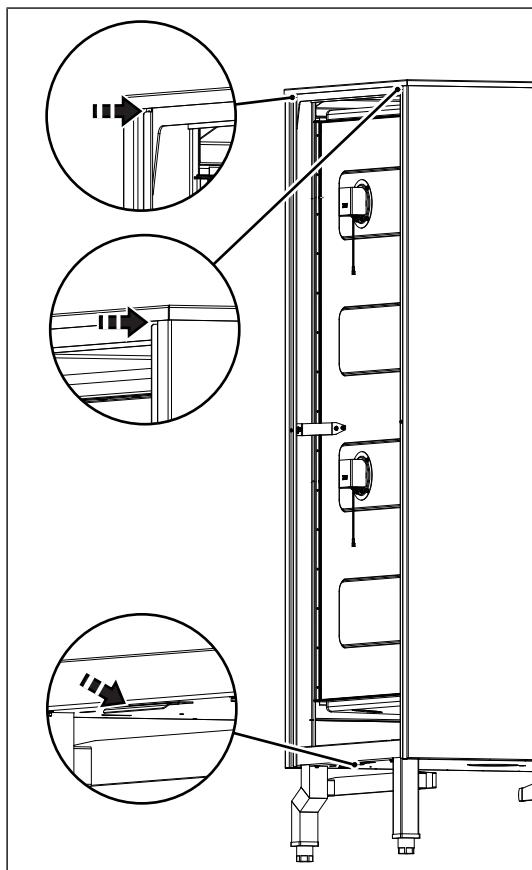
1. Remove the screws on the trolley handle holder using a flat-head screwdriver.
2. Remove trolley handle holder.
3. Remove the screws at the bottom of the side panel using a 7 mm hexagon screwdriver.
4. Pull the bottom edge of the side wall forward.
5. Remove the side wall.

7.1.2 Attaching the Side Wall

NOTICE

Risk of property damage from leaky housing

- Check gaskets when attaching the housing parts.
- Replace damaged gaskets.



1. Insert top edge of side wall.
2. Slide the side panel into the guide at the bottom.
3. Insert the screws in the middle of the side panel and screw them on loosely.
→ if necessary, lift the side wall slightly.
4. Tighten the screws under the unit.
5. Tighten the screws in the center.
6. Check that the side wall is in contact with the unit on all sides.

7.2 Opening and Closing the Control Panel

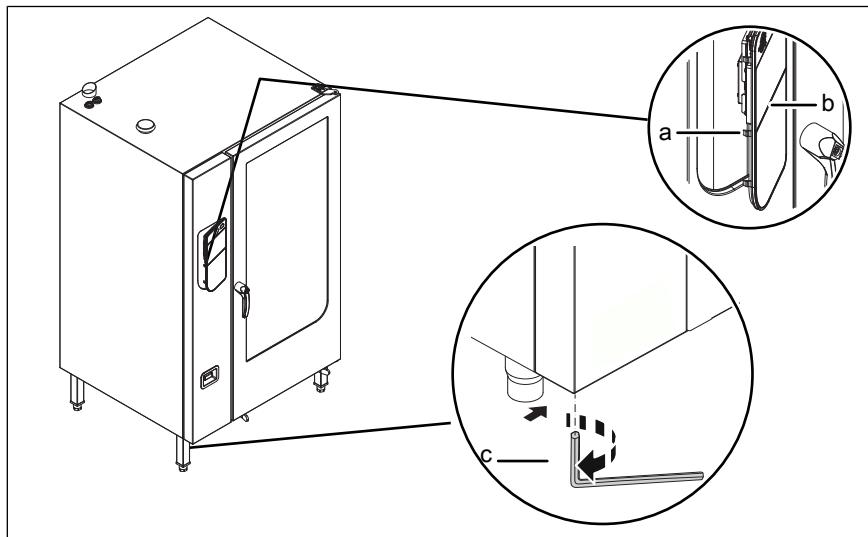


Image: Opening the control panel

- a Lock (cam)
- b Operating panel
- c Hex key (5 mm)

7.2.1 Opening the Control Panel

1. Insert hex key into screw and turn clockwise.
 - ↳ The operating panel is now unlocked.
 - ↳ The operating panel pops up automatically.
2. Withdraw the hex key.

7.2.2 Closing the Control Panel

1. Press and hold operating panel on the left.
 - ↳ Repeat as many times as necessary.
 - ↳ The operating panel snaps in audibly.
- ↳ The operating panel is secured against unauthorized opening.

8 Performing Maintenance

| Overview and order of tasks |
|--|
| Prior to working on unit: Verify the unit is cooled down, drained, and voltage-free |
| 1. Inquire about complaints from the operator. |
| 2. Check all existing tray trolleys |
| 3. Check cooking chamber door and gasket |
| 4. Check the overall state of the unit |
| 5. Check housing. |
| 6. Check the cooking chamber. |
| 7. Check cooking chamber door. |
| 8. Check water connection. |
| 9. Check gas connection. |
| 10. Check flexible hose lines. |
| 11. Check wastewater connection. |
| 12. Check the condition of the electrical components. |
| 13. Check components. |
| 13. Check gas components. |
| 14. Check software. |
| 15. Check power supply. |
| 17. Check the controller. |
| 18. Clean and check grease collection on combi steamer. |
| 19. Restore the unit to full-operation. |
| 20. Document the result of the maintenance. |



Risk of Personal Injury and Property Damage from Electric Shock

- Inspection and adjustment work that require the unit be connected to an electrical source and the housing panel be open, must be performed by an electrically trained and certified technician

Performing Maintenance

8.1 Complaints From the Operator

| Ask the operator if there are any issues with the unit | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • There are no known issues with the unit. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Please provide a description of the complaint and what actions were taken to resolve it here. | | | |

8.2 Check All Existing Tray Trolleys

| Check external damage to the tray trolley with drive-in system | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Tray trolley appear OK externally. – Handlebar is connected and fully functional. | | <input type="checkbox"/> | <input type="checkbox"/> |
| • Ball bearings are in good condition. – Ball bearings are easy to move. | | <input type="checkbox"/> | <input type="checkbox"/> |
| • Casters are in good condition. – Casters are firmly screwed on. – Casters are easy to move. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Change ball bearing. | | | |
| If No Change the caster. | | | |

| Check pan with quick release | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Quick release is tight when locked and releases easily when opened. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If no • Repair quick release. • If necessary, replace gasket. | | | |
| If No Align the tray trolley. | | | |

| Check alignment of the tray trolley with retraction system | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • The tray trolley is in a horizontal position and securely fastened to the ball bearings. – Tray trolley is aligned. – Floor is level within 8 mm (0,31 in). – Tray trolley can move in and out without hitting anything. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Align the tray trolley. | | | |

8.2.1 Align Combi Steamer

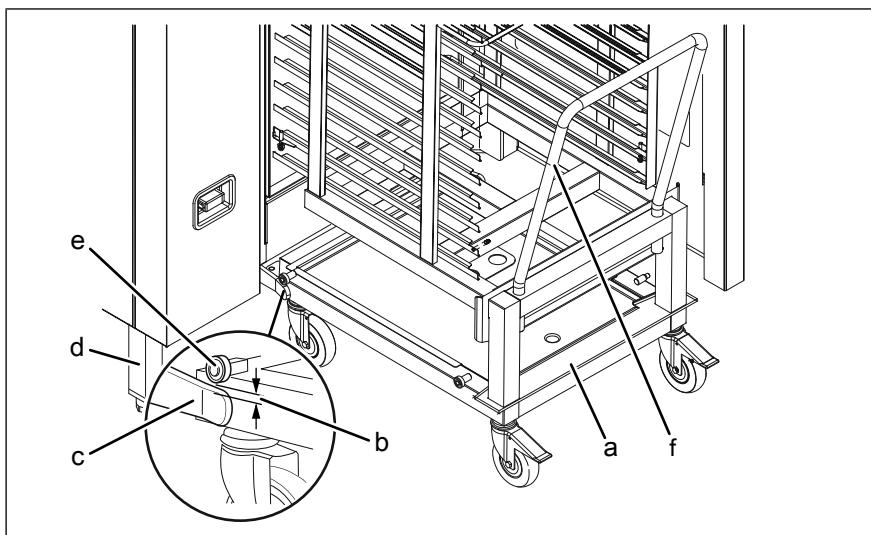


Image: Aligning tray trolley with insertion system

- | | | | |
|---|--------------|---|--------------|
| a | Tray trolley | d | Unit leg |
| b | Distance | e | Ball bearing |
| c | Guide rail | f | Handlebar |

1. Level the unit by either screwing the unit legs in or out.
2. Open the cooking chamber door.
3. Place the tray trolley against the guide rails.
4. Screw the unit legs in or out until the ball bearings (e) are the same distance as (b) which should be 1 mm (0,04 in) - 5 mm (0,2 in) above the guide rail (c).
5. Push tray trolley back into place.
6. Level the guide rails.
7. Insert tray trolley into the unit until it is in place, then check the alignment.
→ The support rollers of the inserted tray trolley should no longer have floor contact.
8. Remove the handlebar (f).
9. Close the cooking chamber door.

8.3 Check Cooking Chamber Door and Gasket

| Check external damage to cooking chamber door | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| <ul style="list-style-type: none"> • Window is fine (no cracks). • Window is properly glued. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Inform the operator. | | | |
| If No Manufacturer's recommendation: Change cooking chamber door. | | | |

Performing Maintenance

| Replace the seal/gasket on the cooking chamber (must replace regardless of condition) | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • The cooking chamber seal was replaced. | | <input type="checkbox"/> | <input type="checkbox"/> |

| Replace the seal/gasket on the cooking chamber door (must replace regardless of condition) | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • The profile seal on the cooking chamber door was replaced. | | <input type="checkbox"/> | <input type="checkbox"/> |

8.3.1 Check Preheat Bridge

| Check Preheat bridge | | | |
|--|------------------|--|--|
| Test Criteria | Remarks / values | Yes | No |
| • Visual inspection:Preheat bridge is not bent. • Operate the preheat bridge manually. • Preheat bridge is free to move and springs back to the starting position. | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| If No Clean area of preheat strip. Continues to fail? Change the preheat strip. | | | |

8.3.2 Door Latch

| Check the door latch on the inside of the cooking chamber door | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Door latch cover is not damaged. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Replace cover cap. | | | |

| Check the door latch on the inside of the cooking chamber door | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Door latch is firmly screwed to the door. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Tighten screws. Add missing screws. | | | |

| Check the function of door latch | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • The door latch and catch are operational). | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Change door latch. | | | |

8.4 Checking the Overall State of the Unit

8.4.1 Operating Panel

| Check operating panel | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Operating panel fully closes. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Check whether the operating panel closes properly. | | | |
| If No Repair broken latching lugs of the control panel with Service Kit (PN MM10034594). | | | |

8.4.2 Supply Air Electronics

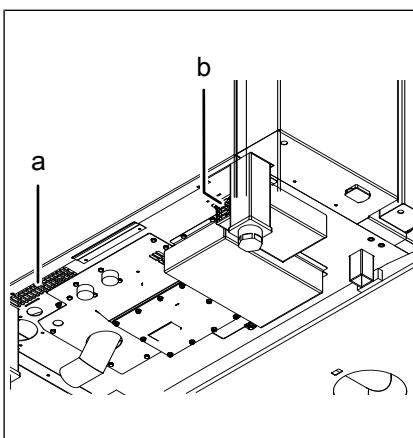


Image: Supply air openings

- a Ventilation grille
- b Ventilation shaft

| Check the supply air to the electronics | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Did you clean the supply air inlet? | | <input type="checkbox"/> | <input type="checkbox"/> |

8.5 Check Housing

| Check unit spacers | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Spacers are in place and have contact with the wall. | | <input type="checkbox"/> | <input type="checkbox"/> |

| Check hand shower | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Hand shower is not leaking and works properly | | <input type="checkbox"/> | <input type="checkbox"/> |

Performing Maintenance

| Check hand shower | | | |
|------------------------------|------------------|-----|----|
| Test Criteria | Remarks / values | Yes | No |
| If No Change hand shower. | | | |

| Check hose reel and hose | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Hose is free of cracks and works properly | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Replace hose reel. | | | |

| Check steam diverter | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Steam diverter is present on top of the unit. | | <input type="checkbox"/> | <input type="checkbox"/> |

8.6 Check Cooking Chamber

8.6.1 Supply Air Supply Cooking Chamber

| Check the air supply to the cooking chamber and check air supply to lift magnet | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Supply air opening on the top of the unit is free (air flow is not restricted or obstructed). | | <input type="checkbox"/> | <input type="checkbox"/> |

8.6.2 Cooking chamber

| Check the cooking chamber for contamination | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Cooking chamber is free of burnt-on deposits. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Inform the operator they will need to manually clean the oven. <i>Please attach pictures to the warranty claim.</i> | | | |

| Check the cooking chamber for limescale residues | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Cooking chamber is free of limescale residues. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Inform the operator they will need to manually clean the oven. <i>Please attach pictures to the warranty claim.</i> | | | |

| Check drain screen | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Drain screen is present and screwed to the drain? | | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | |
|-------------------------------------|--|-------------------------|--|
| Check drain screen | | | |
| Test Criteria | | Remarks / values | |
| If No Mount drain screen. | | | |

NOTICE**Material damage due to missing drain screen**

Operating the device without drain screen may cause damage to the device.

- Only operate the device with the drain screen screwed on.

8.6.3 Lighting

| | | | |
|---|--|--------------------------|--|
| Check the lighting of the cooking chamber | | | |
| Test Criteria | | Remarks / values | |
| <ul style="list-style-type: none"> • Lighting cooking chamber works. | | <input type="checkbox"/> | |
| If No Replace bulb. | | | |

8.6.4 Internal Core Temperature Sensor

| | | | |
|---|--|--------------------------|--|
| Check internal core temperature sensor for damage | | | |
| Test Criteria | | Remarks / values | |
| <ul style="list-style-type: none"> • Core temperature sensor is not bent or damaged. | | <input type="checkbox"/> | |
| If No Change the core temperature sensor. | | | |

8.6.5 Cooking Chamber Sensor and Protective Guard**⚠ CAUTION****Overheating of the unit can cause the unit to catch fire!**

Deposits on the temperature sensor can cause the sensor to give false readings and will impact the overall cooking results.

- Only operate unit with a clean temperature sensor.

⇒ FPG-221 devices have two temperature sensors.

- Clean the temperature sensor and the protective guard.

| | | | |
|--|--|--------------------------|--|
| Check the cooking chamber sensor and protective guard for contamination | | | |
| Test Criteria | | Remarks / values | |
| <ul style="list-style-type: none"> • Neither protective guard or cooking chamber sensor are dirty or calcified. | | <input type="checkbox"/> | |
| If No Clean the cooking chamber sensor and protective guard. | | | |

Performing Maintenance

| Check cooking chamber sensor and protective guard for damage | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| <ul style="list-style-type: none"> • Protective guard is not bent or damaged. • Cooking chamber is not damaged and is bent slightly upwards | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Replace protective guard. Replace cooking chamber sensor. | | <input type="checkbox"/> | <input type="checkbox"/> |

8.6.6 Heat Exchanger, Fan Wheel and Water Inlet

| Check heat exchanger for deposits | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| <ul style="list-style-type: none"> • Heat exchanger is free of lime and carbon residues. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Clean heat exchanger with plastic spatula. CAUTION! Do not use metal brush or metal spatula. | | | |

| Check fan wheel for deposits | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| <ul style="list-style-type: none"> • Fan wheel is free of limescale residues. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Decalcify the device. | | | |

| Check water inlet in the cooking chamber for limescale residues | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| <ul style="list-style-type: none"> • Water inlet is free of limescale residues. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Decalcify or replace water inlet pipe. | | | |

8.7 Check Water Connection

| Checking the flexible hose line on the unit | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| <ul style="list-style-type: none"> • Flexible hose line is tight (no deposits or corrosion). | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Change flexible conduit. | | | |

8.8 Check Gas Connection

| Check gas connection line | | | | |
|---|--|------------------|--------------------------|--------------------------|
| Test Criteria | | Remarks / values | Yes | No |
| • Firm fit with no damage, creases, or exposure to external heat sources. | | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Inform the operator: The device must not be operated in a defective condition. Do not carry out any further work. Commission or plan repair work. | | | | |

| Check external exhaust hood | | | | |
|---|--|------------------|--------------------------|--------------------------|
| Test Criteria | | Remarks / values | Yes | No |
| • External exhaust hood is operational. | | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Inform store manager. | | | | |

8.9 Check Flexible Hose Lines

| Check the flexible hose line in the unit | | | | |
|--|--|------------------|--------------------------|--------------------------|
| Test Criteria | | Remarks / values | Yes | No |
| • Clamps are screwed on tightly. | | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Tighten screws or replace clamp. | | | | |

| Check tightness | | | | |
|---|--|------------------|--------------------------|--------------------------|
| Test Criteria | | Remarks / values | Yes | No |
| • Hoses or flexible conduits are dry with no visible traces of moisture or corrosion. | | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Change hose. If replacement is not possible immediately, take the unit out of service. | | | | |

8.10 Check Wastewater Connection

| Check the waste water connection on the unit | | | | |
|--|--|------------------|--------------------------|--------------------------|
| Test Criteria | | Remarks / values | Yes | No |
| • On-site wastewater connection to the unit is tight (no deposits or corrosion) and dispensing into the drain. | | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Repair wastewater connection. | | | | |

8.11 Checking The Condition of The Electrical Components

DANGER

Risk of personal injury and property damage from electric shock

- Before working on the unit, ensure that the unit has been disconnected from the power supply.

| Action |
|--|
| • Disconnect unit from power. |
| • Open the left side of the housing (see "Opening and closing the housing"). |

| Check the unit for water residues | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Device is free from moisture. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot and replace parts as necessary. If cause cannot be stopped immediately, take unit out of operation. <i>Please provide remarks here and attach pictures to warranty claim.</i> | | | |

| Check control board cable | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Wire insulation and connection wires are undamaged (not brittle, swollen, or scorched). | | <input type="checkbox"/> | <input type="checkbox"/> |

| Check contactor | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Contactor is externally OK (not brittle, damaged, or charred) and screw connections are tight. | | <input type="checkbox"/> | <input type="checkbox"/> |

| Inspecting the permanent connection for visible damage | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Electrical connection line is installed correctly, and wire insulation is undamaged (not brittle or scorched) | | <input type="checkbox"/> | <input type="checkbox"/> |

| Check electrical contacts - Carry out inspection of wiring harness (cable and contacts) | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Contacts are free of scorch marks. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot and replace parts as necessary. <i>Please provide remarks here and attach pictures to warranty claim.</i> | | | |

8.12 Check Components

| Checking fan (service level / relay test K11) | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • All fans work properly when the cooking process is active. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot according to service manual. | | | |
| Check lift magnet air inlet flap (service level / relay test K08) | | | |
| Test Criteria | Remarks / values | Yes | No |
| • Lift magnet works perfectly. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot according to service manual. Inform operator. | | | |
| Check the steam injection unit (see Service level / Relay test K18) | | | |
| Test Criteria | Remarks / values | Yes | No |
| • Humidification unit works perfectly. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot according to service manual. | | | |
| Check solenoid valve vapour elimination (service level / relay test K04) | | | |
| Test Criteria | Remarks / values | Yes | No |
| • Solenoid valve works perfectly. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot according to service manual. Inform operator. | | | |
| Check siphon pump (service level / relay test K05) | | | |
| Test Criteria | Remarks / values | Yes | No |
| • Siphon pump works perfectly. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot according to service manual. Inform operator. | | | |
| Check pump circulation (service level / relay test K17) | | | |
| Test Criteria | Remarks / values | Yes | No |
| • Pump circulation works properly. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot according to service manual. Inform operator. | | | |

Performing Maintenance

| Check motor cooking chamber for noise | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Motor cooking chamber runs with minimal to no noise. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If no | | | |
| • Check fan wheel for imbalance. • Recommendation of the manufacturer: Change motor and fan wheel. | | | |

8.13 Check Gas Components

| Action |
|---|
| • Switch on the ventilation system. |
| • Open the gas inlet. |
| • Switch on the device. |
| • In case of two devices next to each other - switch on both devices. |

| Checking for leaktightness outside the unit | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Gas-carrying parts tight (see "Checking tightness outside the device"). | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No | | | |
| See "Checking tightness outside the device" and troubleshoot. | | | |

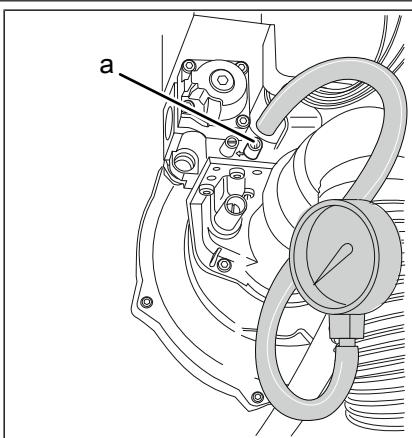
| Check the resistance of the glow electrodes ATTENTION! Wait at least 15 minutes after operation before performing the measurement. | | | |
|--|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| Both upper and lower burner | | <input type="checkbox"/> | <input type="checkbox"/> |
| • The electrical resistance of the glow electrode is between 1 to 10 Ω. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No | | | |
| Replace glow electrode. | | | |

| Gas type | Dynamic pressure (inch WC (mbar)) | Dynamic pressure range (inch WC (mbar)) |
|------------------|-----------------------------------|---|
| Natural gas A | 8 (20) | 6.8 - 10 (17 - 25) |
| LP Gas B/P gas E | 12 (30) | 10 - 14 (25 - 35) |

| Gas connection | |
|--|--|
| • With which type of gas is the device operated? | |
| <input type="checkbox"/> natural gas E/H, G20, 8 inch WC (20 mbar) | <input type="checkbox"/> liquid gas P, G31, 12 inch WC (30 mbar) |

INFORMATION

Ensure additional combi ovens, bakery ovens, heating system and ALL other equipment connected to the gas supply are on AND HEATING while checking gas pressure.

| Gas connection | | Yes | No |
|---|-------|-----------------------------|--------------------------|
|  <p>Connection pressure OK (right side port on gas valve "a")?</p> <ul style="list-style-type: none"> • Is the connection pressure (dynamic pressure) OK at "High" power? (See "Checking the connection pressure" in the installation instructions). • If there are multiple units installed in one location, all other units in addition to the unit being checked must run on maximum power. <p>Connection pressure (dynamic pressure): _____</p> | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Inform store manager. | | | |
| CO ₂ and CO test upper burner | | | |
| High | | | |
| <ul style="list-style-type: none"> • Exhaust gas values at full load "High" okay? (See chapter "Checking exhaust gas values at partial load" in the installation instructions) | | | |
| Measured CO ₂ : _____ | Vol % | Set CO ₂ : _____ | Vol % |
| Measured CO: _____ | ppm | Set CO: _____ | ppm |
| Low | | | |
| <ul style="list-style-type: none"> • Exhaust gas values at partial load "Low" okay? (See chapter "Checking exhaust gas values at partial load" in the installation instructions) | | | |
| Measured CO ₂ : _____ | Vol % | Set CO ₂ : _____ | Vol % |
| Measured CO: _____ | ppm | Set CO: _____ | ppm |
| CO ₂ and CO test bottom burner | | | |
| High | | | |
| <ul style="list-style-type: none"> • Exhaust gas values at full load "High" okay? (See chapter "Checking exhaust gas values at partial load" in the installation instructions) | | | |
| Measured CO ₂ : _____ | Vol % | Set CO ₂ : _____ | Vol % |
| Measured CO: _____ | ppm | Set CO: _____ | ppm |
| Low | | | |
| <ul style="list-style-type: none"> • Exhaust gas values at partial load "Low" okay? (See chapter "Checking exhaust gas values at partial load" in the installation instructions) | | | |
| Measured CO ₂ : _____ | Vol % | Set CO ₂ : _____ | Vol % |
| Measured CO: _____ | ppm | Set CO: _____ | ppm |

Performing Maintenance

| Checking for leaktightness inside the unit | Yes | No |
|--|--------------------------|--------------------------|
| • Are the gas-conducting parts inside the unit leak-free? | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot and replace parts as necessary. <i>Please provide remarks here and attach pictures to warranty claim.</i> | | |

8.14 Check Software

INFORMATION

New software version may fix bugs and include feature enhancements.

| Software | Yes | No |
|--|--------------------------|--------------------------|
| Software version on the device : | | |
| Is the manufacturer's current software version installed on the device? | <input type="checkbox"/> | <input type="checkbox"/> |
| If no Update software on the device Software version after update: | | |

8.15 Checking The Power Supply

NOTICE

Risk of property damage from using wrong wires

When servicing, only use wires with silicone insulation.

| | |
|--|---|
| Check supply voltage | |
| Type of connection | 1NPE / AC 50/60 Hz, 2PE / AC 50/60 Hz, 120V |
| Test Criteria | Actual value (V) |
| • Measure supply voltage. | _____ |
| Action | |
| • Close the unit (see "Opening and closing the unit"). | |

DANGER

Risk of Personal Injury and Property Damage from Electric Shock

- Inspection and adjustment work that require the unit be connected to an electrical source and the housing panel be open, must be performed by an electrically trained and certified technician

8.16 Checking The Controller

8.16.1 Check Date and Time

Note The unit is ready for use prior to setting the date and time

1. Plug the unit into an electrical source.
2. Power on the device.
3. Set the date and time.
4. Switch the unit off and then back on.
5. Check date and time.

↳ If necessary: Replace buffer battery.

| Check date and time | | | |
|------------------------------------|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Date and time are current. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Set date and time. | | | |

8.16.2 Are There Any Current Error Messages?

Note The unit is ready for use prior to reviewing for error messages

1. Plug the unit into an electrical source.
2. Power on the device.
3. No error message appears in the display:
↳ Device is ready to be put into service.
4. An error message appears in the display:
↳ Perform troubleshooting according to service instructions.
↳ Fix error.
5. Power off the unit.

| Current error messages | | | |
|-------------------------------------|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • No error messages were displayed. | | <input type="checkbox"/> | <input type="checkbox"/> |

INFORMATION

Maintenance only possible to a limited extent.

8.17 Clean and Check Grease Collection on Combi Steamer

8.17.1 Clean Grease Collection System

Note Verify cooking program has ended

- Detach the grease drain hose from the grease collector.
- Connect grease drain hose to existing water hose.
- Flush the system for approx. one minute.
- ↳ Cleaning is complete.
- Disconnect the water hose from the grease drain hose.

| Clean grease collection system | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Grease collection system has been cleaned. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Clean the grease collection system. | | | |

8.17.2 Function Test Grease Pump

- Detach the grease drain hose from the grease collector.
- Mount the backflush fitting on the grease drain hose.
- Open the cooking chamber door.
- Remove trolley.
- Spray water into the cooking chamber with the hand shower for at least 30 seconds.
- Pull up the relay test in the service menu.
- Activate relay K13. The grease pump should turn on.
- ↳ Water / grease is pumped into the collection container = pump system in order.
- ↳ Water / grease is not pumped into the collection container = carry out troubleshooting.

Tap "K 13" to exit.

| Check grease pump | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Water / grease is pumped into the collection container. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Troubleshoot. | | | |

8.17.3 Function Test Automatic Flushing

Prior to testing Detach the grease drain hose from the grease collector.

- Mount the backflush fitting on the grease drain hose.
- Open the cooking chamber door.
- Remove tray trolley
- Open the relay test in the service menu.
- Activate relay K14.
 - ↳ Solenoid valve K41 for flushing is turned on.
 - After approx. 30 seconds, additionally activate relay K13.
 - ↳ Water is pumped into the collection tank = solenoid valve OK.
 - ↳ Water and occasional lumps of grease are pumped into the collection container = clean the grease drainage system. Then repeat the test.
 - ↳ Water is not pumped into the collection tank = carry out troubleshooting.
- Tap "K 13" and "K14" to exit.

| Check automatic flushing | | | |
|---|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Display solenoid valve K41 shows green when activated. | | <input type="checkbox"/> | <input type="checkbox"/> |
| • Water / grease is pumped into the collection container. | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No To either test criteria, troubleshoot. | | | |

8.18 Restoring The Unit To Operability

| Action |
|--|
| • Restore the unit to its operational state. |

| Final cleaning | | Yes | No |
|--------------------------------------|--|--------------------------|--------------------------|
| Unit heated and rinsed? | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Heat and rinse unit. | | | |

| Handing over the unit | | | |
|---------------------------------|------------------|--------------------------|--------------------------|
| Test Criteria | Remarks / values | Yes | No |
| • Unit put back into service? | | <input type="checkbox"/> | <input type="checkbox"/> |
| If No Please explain. | | | |

Performing Maintenance

Notes and remarks

FM08-901D

9 Maintenance Notes

| | | | |
|---------------------------------|------------|---------------|-----------|
| Commissioning was performed by: | | | |
| Company | Technician | Place, date | Signature |
| | | Store manager | Signature |

Maintenance Notes



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Henny Penny Corp., Eaton, Ohio 45320, Revised 7/23/2024